



## FACT SHEET

# GRID RESILIENCE AND INNOVATION PARTNERSHIPS PROGRAM

*Established by the Bipartisan Infrastructure Law, the U.S. Department of Energy's Grid Deployment Office is administering a historic \$10.5 billion investment via the Grid Resilience and Innovation Partnerships (GRIP) program to enhance grid flexibility, improve the resilience of the power system against growing threats of extreme weather and climate change, and ensure American communities have access to affordable, reliable, clean electricity when and where they need it.*

## THE GRID OF THE FUTURE

The Grid of the Future Project will deploy a suite of technology investments to create an automated grid that predicts failures, reduces outages, increases resilience, improves customer affordability, and maximizes grid flexibility. These investments build on over a decade of PPL Electric Utilities Corporation's smart grid innovation and enable its communities to pursue ambitious transportation electrification targets within their Climate Action Plans by increasing the grid flexibility in Pennsylvania. This portfolio has the potential for transformative impact on grid resilience and outages across Pennsylvania due to increased storm frequency and intensity.

### Anticipated Outcomes and Benefits

The Grid of the Future project will support the integration of distributed energy resources (DERs), embrace a two-way power flow model, enable real-time grid control, and offer a range of benefits for communities, including:

- › Advance Pennsylvania state electrification goals by building a more reliable grid.
- › Reduce outage duration and prevent faults due to system disruptions during extreme weather events.
- › Increase the use of advanced automation technologies for greater energy reliability during disruptive events.
- › Deploy advanced data analytics with artificial intelligence and machine learning to monitor outages, forecast changes in demand, and enhance real-time grid operations.
- › Decrease outage durations and outage frequencies, helping to ensure reliable electricity service for over 800,000 people living in **disadvantaged communities** (DACs).
- › Catalyze workforce development and the retention of skilled labor in local communities by creating up to 225 new job opportunities across the value chain.
- › Pay all laborers and mechanics employed under this project no less than the prevailing wage.

### PROJECT DETAILS

- › **Project:**  
The Grid of the Future
- › **Applicant/Selectee:**  
PPL Electric Utilities Corporation
- › **GRIP Program:**  
**Smart Grid Grants** (Bipartisan Infrastructure Law, Section 40107)
- › **Federal cost share:**  
\$49,500,000
- › **Recipient cost share:**  
\$49,500,000
- › **Project Location:**  
Pennsylvania
- › **Project type:**  
Visibility and Control

### HELPFUL LINKS

- › **[Grid Resilience and Innovation Partnerships Program](#)**
- › **[About the Grid Deployment Office](#)**